Student Homework Sheet — Stage 01: Problem Framing & Scoping

Assignment (Due next class)

1. Write a Project Scoping Paragraph (1-2 paragraphs)

- O Define the problem.
- o Identify the primary stakeholder/end user.
- Explain what kind of answer is useful (descriptive/predictive/causal; metric or artifact).

2. Set Up & Share Your GitHub Repo

- Create folders: /data/, /src/, /notebooks/, /docs/.
- Add README.md with your scoping paragraph and a goals→lifecycle→deliverables mapping.
- Share repo link; add instructor/TAs as collaborators.

3. Create a Stakeholder Context Artifact (choose one)

- o Stakeholder memo (markdown), or
- Framing slide (1-pager), or
- Code comments at the top of your main notebook explaining the problem & goals.

Chain Statement

In the lecture, we learned to frame stakeholder-centered problems, surface assumptions, and map goals to lifecycle deliverables. **Now, you will adapt** that framing to produce a scoping paragraph, set up your repo, and create a stakeholder-facing artifact.

Step-by-Step Instructions

- 1. Draft your paragraph using the class worksheet headings.
- 2. Initialize your repo and create the folder tree.
- 3. Add a README.md using the provided template (below).
- 4. Commit with message: Initial commit project framing.
- 5. Create your chosen stakeholder artifact; save it in /docs/ (or at top of notebook).
- 6. Push to GitHub; submit the repo URL and (if external) a Google Drive link to the memo/slide.

README Template (copy into your repo)

```
# Project Title
**Stage:** Problem Framing & Scoping (Stage 01)

## Problem Statement
<1-2 paragraphs: what problem & why it matters>

## Stakeholder & User
```

Grading Rubric (100 points)

- Clarity of Problem (20 pts): Specific, decision-linked, measurable success criteria.
- Stakeholder & User (20 pts): Correctly identified, roles separated if different.
- Useful Answer (20 pts): Appropriate framing (desc/pred/causal) with metric/artifact.
- Assumptions & Constraints (20 pts): Realistic and relevant.
- Repo Setup & README (20 pts): Correct structure, clean README, working link.

Stretch Recognition (+1 bonus): Well-crafted persona or slide with concrete pain points and decisions.

Example Submission Expectations

- 1–2 paragraph scoping text in README and/or a Google Doc link.
- GitHub repo with folder tree and initial commit history.
- A stakeholder memo (md) in /docs/ or a screenshot/pdf of a 1-pager slide or clear top-of-notebook comments.

Submission Format: Post repo URL in the appropriate spot on the shared google sheet by next class.